Estimated Probability of Occurrence for Post-Fire Debris Flows in response to a 10-year, 1-hour storm (19 mm) in the 2013 Beaver Creek Burn Area near Hailey, Central Idaho

U.S. Geological Survey
Department of the Interior

by
Kenneth D. Skinner
2013

OPEN-FILE REPORT 2013-1273
Probability Map for 10-Year 1-Hour Storm -- Plate 4

Skinner, K. D., 2013, Post-Fire Debris-Flow Hazard Assessment of the Area Burned by the 2013 Beaver Creek Fire near Hailey, Central Idaho

EXPLANATION

Estimated probability (percent) of a debris flow in response to a 10-year, 1-hour storm (19 mm) based on the National Oceanic and Atmospheric Administration's precipitation estimates (basin outlet labels are identified in table 1).

- Basin outlet
- Watershed boundary
- Beaver Creek Fire Boundary
- Drainages that exceed the basin area for which the model was developed but can still be impacted by upstream debris flows.

Probability

Stream segment	Selected Basins
<= 15	<= 15
> 15 to 30	> 15 to 30
> 30 to 45	> 30 to 45
> 45 to 60	> 45 to 60
> 60	> 60

Debris-flow probability is estimated for a basin outlet at the most downstream end of each drainage basin and for segments of the drainage network that contained burned terrain.

Baker Creek
Warm Springs Creek
Greenhorn Creek
Deer Creek
Big Wood River
Democrat Gulch
Croy Creek
Willow Creek

BC 1 BC 2 BC 3 BC 4 BC 5 BC 6 BC 7 BC 8 BC 9
WS 1 WS 2 WS 3 WS 4 WS 5 WS 6 WS 7 WS 8 WS 9 WS 10 WS 11 WS 12 WS 13 WS 14 WS 15 WS 16 WS 17
GC 1 GC 2 GC 3 GC 4 GC 5 GC 6 GC 7 GC 8 GC 9 GC 10 GC 11
BW 1 BW 2 BW 3 BW 4 BW 5 BW 6
DC 1 DC 2 DC 3 DC 4 DC 5 DC 6 DC 7 DC 8 DC 9 DC 10 DC 11 DC 12 DC 13 DC 14 DC 15 DC 16 DC 17 DC 18 DC 19 DC 20 DC 21 DC 22 DC 23 DC 24 DC 25 DC 26 DC 27 DC 28 DC 29 DC 30 DC 31 DC 32 DC 33 DC 34 DC 35 DC 36 DC 37 DC 38 DC 39 DC 40 DC 41 DC 42 DC 43 DC 44 DC 45
DG 1 DG 2 DG 3 DG 4 DG 5 DG 6 DG 7 DG 8 DG 9 DG 10 DG 11 DG 12 DG 13
CC 1 CC 2 CC 3 CC 4 CC 5 CC 6 CC 7
WC 1 WC 2 WC 3 WC 4 WC 5 WC 6 WC 7 WC 8 WC 9 WC 10 WC 11 WC 12 WC 13 WC 14 WC 15 WC 16 WC 17 WC 18 WC 19 WC 20 WC 21 WC 22

Base from U.S. Geological Survey digital data 30 m shaded relief, 2002, digital raster graphics, 2002, and 1:24,000 hydrography, 2007.

0 1 2 3 4 Miles
0 1 2 3 4 Kilometers

IDAHO
MAP LOCATION